



OSCILLATOR

Volume 24 Number 12

**MARCONI CENTENNIAL CELEBRATION
DECEMBER 12** See Story, Page 4

December 2001

Next Meeting: Wednesday, December 12

**You are invited
To the Annual
HOLIDAY SOCIAL**

**Entertainment:
Jim Fischer at the Keyboard**

Buffet Dinner at 6:00 PM

**Main Lodge Floor
Beaverton Elks Club
3500 SW 104th Avenue**

Dancing

Food, Fun, Friends

Holiday Raffle

Optional White Elephant Exchange

**Bring a Canned Food Contribution for the Elks' Food Drive
ORVARC will make a contribution to the Elks' for their Holiday Meals
Program**

**Short Club Meeting at 7:00 PM
Election Results**

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**...our
served agencies
have developed
high
expectations
of our service.
- Sharon Kennedy**

Oregon Tualatin Valley Amateur Radio Club Scores 1st Place In Field Day 2001

Oregon Tualatin Valley Amateur Radio Club scored First Place in Field Day in Class 3A for Oregon. OTVARC members took to the hills to Bald Peak State Park on June 23-24, 2001 for the ARRL Annual Field Day emergency preparedness event. The Club scored 13th place Nationally in the 3-transmitter-battery class.

Dean Davis has already reported that the participation level was one of the highest for Field Day events by ORVARC. Efforts to include as many club members as possible paid off, and the support of The Travelers' group added important social elements to the exercise. Visiting hams and non-hams were welcomed and included in the event.

Field Day 2002 will be held on Saturday, June 22 and Sunday, June 23. Dean Davis has accepted the coordinating leadership again. He reports that OTVARC will return to Bald Peak State Park for the exercise. Planning has already begun. One possible change for 2002 will be the inclusion of an additional transmitter. CW may play a larger role in Field Day 2002, as will digital modes. Discussion is underway on a demonstration element for the event.

Dean Davis, KL7OR, OTVARC Field Day Chairman

What Program Would YOU Like to See?

What program would you like to see at members meetings each month? The process of planning programs takes considerable thought and time. Phil Teck, Vice President, currently has been assigned the responsibility of finding ham-related program subjects that will be of interest and help to members. When you check out the program offering for the month, what motivates you to want to be present for the member meeting? Your answer will help plan programs for OTVARC.

You can help! Consider yourself a member of Phil's Program Planning Committee. If you were going to identify subject and presenter for TWO monthly programs in 2002, what would they be? You can answer by sending your thoughts to the club email address, W7OTV@yahoo.com. The best ideas may turn into real programs.

VE NEWS, Carl, WS7L

The final VE session for 2001 took place on 1 December at Ronler Acres Fire Station. This session was remarkable for its size and success rate: We had 23 applicants and every single one earned the license, upgrade, or test credit that they came for!

We issued 15 new Technician licenses, which included three kids in their early teens or younger. There were also five upgrades to General and two Extras. Thanks go to VEs Claire N7CM, Phil WA7URV, and Ron N7HKK, and assistant Ernie K7EAJ. The schedule for 2002 will follow the same plan as last year: the first Saturday of even months. Call 503-629-5796 or ws7l@arrl.net.

Washington County ARES Net

The Washington County ARES Net is on the air every Tuesday night (except ARES meeting nights) at 7:00 p.m. on the 146.90 MHz repeater.

Alternate repeater Net frequency is 145.190 MHz. Our Simplex frequency is 147.400 MHz. Stop in, listen, and check in to the Net..

Sharon Kennedy, KD7CWP
City of Hillsboro Emergency Manager

The Chuck Mickley Memorial Scholarship, Carl, WS7L

1. A Sum of \$1,000.00, subject to available funds, donated annually by the Oregon Tualatin Valley Radio Club, provides funds for this scholarship.
2. The selection process will include reviewing individual applications and interviews of the finalists by the Oregon Tualatin Valley Amateur Radio Club
3. In order to be eligible for the scholarship, an applicant must:
 - a. Hold a current valid Amateur Radio License, any class, issued by the United States Federal Communications Commission.
Priority will be given to Amateurs who are active in Amateur Radio related activities in their community.
 - b. Plan to be a full-time student (at least 12 credit hours).
 - c. Currently be a high school senior with a cumulative GPA of 3.00 or better, OR, if temporarily out of school for up to two years, have had a cumulative high school GPA of 3.00 or better, OR, if attending college, must have established a college GPA of 3.00 or better.
 - d. Plan to, or be enrolled in a 2 or 4 year degree program at an accredited college or university.
Priority will be given to those with a college major in the fields of:
Physical Sciences, Math, Engineering, Computer,
OR, Education in one of the above.
 - e. Be a U.S. citizen.
 - f. Be a resident of Clackamas, Multnomah, Washington, or Yamhill County, Oregon.
 - g. Have been a well-rounded student and participated in other school and community activities.
4. The first half of the scholarship money will be paid in August directly to the applicant upon proof of acceptance to the college or university program. The second half of the money will be paid directly to the student in December upon proof of satisfactory completion (GPA of 2.00 or better and student in good standing) of Fall quarter with at least 12 credit hours.
5. The scholarship will be null and void if not used within two years of the notification of the winner.
6. The scholarship recipients are encouraged to maintain contact with the Oregon Tualatin Valley Amateur Club to advise them of their academic progress while attending college or university.
7. Applications are due by March 31.
8. All correspondence or questions regarding this scholarship should be mailed to:

SCHOLARSHIP COMMITTEE
OTVARC
PO Box 5132
Beaverton OR 97006-0132

www.otvarc.org

MARCONI: Centennial of Trans-Atlantic Communications

Guglielmo Marconi may well be the precursor of the modern amateur radio operator. Born at Bologna, Italy, on April 25, 1874, the son of an Italian country gentleman and an Irish (County Wexford) gentlewoman, he was educated privately.

In his teens, Marconi took interest in physical and electrical science and read the writings of Maxwell, Hertz, Righi, and Lodge. As a youth Marconi re-created the experiments of Benjamin Franklin and Thomas Edison. He transmitted wireless telegraph signals as early as 1890 - between tin plates mounted on posts in the garden at his father's country estate at Pontecchio, Italy. He was 16 years old.



Guglielmo Marconi

*April 25, 1874 to
July 20, 1937*

In 1895, he began experiments where he succeeded in sending wireless signals over a distance of one and a half miles, becoming the inventor of the first practical system of wireless telegraphy. He took his apparatus to England where he was introduced to Sir William Preece, Engineer-in-Chief of the Post Office, and later that year was granted the world's first patent for a system of wireless telegraphy. He demonstrated his system successfully in London, on Salisbury Plain and across the Bristol Channel. In July 1897 Marconi formed The Wireless Telegraph & Signal Company Limited, later renamed Marconi's Wireless Telegraph Company Limited.

Marconi established wireless communication between France and England across the English Channel in 1899. He erected permanent wireless stations. The next year, he took out his famous patent No. 7777 for "tuned or syntononic telegraphy." On **December 12, 1901**, determined to prove that wireless waves were not affected by the curvature of the Earth, he used his system for transmitting the first wireless signals across the Atlantic between Poldhu, Cornwall, and St. John's, Newfoundland, a distance of 2100 miles. Marconi received the first transatlantic signal; the letter "s" tapped out from a station in England.

In 1931 Marconi began research into the propagation characteristics of shorter waves, resulting in the opening in 1932 of the world's first microwave link between the Vatican City and the Pope's summer residence at Castel Gandolfo. He developed and demonstrated a microwave radio beacon for ship navigation. In 1935 he demonstrated the principles of radar, the coming of which he had first foretold in a lecture to the American Institute of Radio Engineers in New York in 1922.

Marconi received the Nobel Prize for Physics in 1909. He shared with Professor Carl Braun. They received the award for demonstrations of radio waves and their practical use. Marconi died in Rome on July 20, 1937.

There may well be a Marconi at work today. Break through studies in propagation, rf generation, and reception techniques are changing the way radio energy is understood. In the past decade, DSP techniques have become common in receiver design.

Marconi was encouraged in his early studies by a friend of his father. That man knew little of what Marconi would learn, but his encouragement played a large role in the eventual success of the young Marconi. Your encouragement may start today's experimenter down the path to discovery.

License Classes

"NO-CODE TECHNICIAN" AMATEUR RADIO LICENSE CLASSES

During November, nearly five dozen individuals participated in NO CODE Technician classes sponsored by the Oregon Tualatin Valley Amateur Radio Club. Many of those individuals have tested and been added to ranks of Amateur Radio operators.

When you meet a new ham on the air, be sure to welcome them to our ranks and offer help in learning operating practices and solving equipment problems. Our hobby is built on the "Elmers" who have helped us along the way.

There are requests for additional classes. Janet Bell, WB7FJC, Training Coordinator for OTVARC, advises that another series of ARRL video-taped classes will be offered soon.

Would you like to join a class? Do you know someone you'd like to help join our ranks? Contact Janet to be added to the list of those to be notified when classes are set. Janet's email is WB7FJC@arrl.net. Call her at 503-648-4147.

Amateur Radio is "caught" by contact with existing hams who tell the story to others.

AWARD NOMINATIONS SOUGHT

Nominations close January 31 for the ARRL Herb S. Brier Instructor of the Year, Professional Educator of the Year, Professional Instructor of the Year, and Excellence in Recruiting awards for 2002.

The ARRL Herb S. Brier Instructor of the Year Award goes each year to a volunteer Amateur Radio instructor.

The ARRL Professional Educator of the Year award goes to a professional teacher who has incorporated Amateur Radio into his or her class curriculum.

The ARRL Professional Instructor of the Year award is presented to a paid, non-state certified ham radio instructor, such as those teaching classes offered through adult education programs.

The ARRL Excellence in Recruiting Award goes to a ham who exemplifies outstanding recruiting enthusiasm and technique and has gone the extra mile to introduce others to Amateur Radio. Activities include, but are not limited to, school and public ham radio demonstrations, participation in the Jamboree On The Air or similar activity, or assuming a non-teaching role in organizing ham radio licensing classes.

Information and nomination forms are available on the ARRL Web Site at <http://www.arrl.org/ead/award/>.

5th Wednesday

The last Fifth Wednesday Contest of 2001 took place on October 31st. Logs were due at the November 14 Club meeting. Awards will be given at the December 12th Meeting.

Fifth Wednesday contests will be held in 2002 on:
January 30 May 29
July 31 October 30

The Fifth Wednesday Contest is an exercise to determine 2 meter simplex capability (147.54 MHz). Awards are given for three classes of stations: QRP (5 watts or less), more than 5 watts, and a multi-operator award.

Haven't tried it? Set your calendar for next month's contest and give it a try!

ID CARDS, from page 8

If you have questions, you can talk to Alvin Carlson, KB7VHI, OTVARC Emergency Services Coordinator. You can also contact the Washington County ARES Emergency Coordinator, Ben Johnson, N7OGM, bentonj@coho.net or on the Tuesday-night net, 7 p.m. on the 146.90 MHz repeater (145.19 MHz repeater alternate). Washington County ARES meetings are held the third Tuesday of the month @ 7 p.m. Because of the current security at the 9-1-1 Center, we are looking for an alternate meeting site. The meeting site will be announced on the Tuesday evening nets.

Sharon Kennedy, KD7CWP

Resolving RF Interference Complaints through Mediation, Thor, K5AGE

I share my recent experience in participating in a neighborhood mediation meeting to respond to complaints about RF interference to telephones, television, computers etc. for the benefit of others that may be confronted with similar situations in the future. I give special thanks to Greg Milnes, W7OZ, for his helpful advice in preparing me for what seemed to be a very threatening situation.

The meeting was sponsored by the Beaverton Community Dispute Resolution Center and started out with four parties opposing me with negative attitudes about me and ham radio operators in general. One of my strategies was to take the initiative and distribute an information letter with copies of the FCC consumer information brochures contained in "The ARRL RFI Book" to the complaining parties prior to the meeting.

The information letter described what I have done to assure compliance with FCC rules and made suggestions on how to reduce or eliminate interference by users of consumer electronics that does not meet recommended industry standards. I also pointed out my participation in the Military Affiliate Radio System and the vital role that hams play in providing emergency communications following civil disasters such as the recent terrorist attack. One of the parties had taken my suggestion to contact the FCC and fortunately they made it quite clear that I was in good standing, exercising my legal rights as a licensed operator and that the interference problem was theirs to solve. Also, my opponents were skeptical of the positive contributions that hams make in emergency and MARS communications. After the first hour, my opponents attitude became much more empathic and I was starting to get questions about ham radio and the value that we bring to the community. I felt the momentum was going my way when I started getting sincere questions on steps that they could take to do their part to reduce or eliminate the interference.

I volunteered my services when one lady asked how her church could eliminate interference from a local CB operator during church services. The one exception was my next door antagonistic neighbor who had organized the other neighbors to make complaints. He started losing credibility with the other neighbors and the mediators because of his inflexibility and negative attitude about every suggestion being made. His anger and outbursts only accelerated as he saw his support slipping away and some of the positive support that I was getting. My action item from the meeting was to provide information on emergency communication services and accounts of disasters and rescues where hams have played a vital role. More information on the Beaverton Community Dispute Resolution Center can be found at <http://www.ci.beaverton.or.us/departments/dispute/>.

Best Regards and 73,
Thor Hallen K5AGE

IC-T7H Drawing to be held December 12

The Fall Drawing will be held as part of the Holiday Celebration, Wednesday, December 12th at the Elks' Club. Tickets will remain available until the winning ticket is drawn.

The IC-T7H is a dual band (2 meter and 440 MHz) handheld produced by ICOM. It offers 70 memory channels and 6 watts output. It would make a nice addition to your candy collection.

Radio email Solves Sailing Communication Problems

When Jim Corenman, KE6RK wants to get in touch with family and friends while aboard his 50-foot sailboat, Heart of Gold, he reaches for his ham radio, connects the laptop, and starts sending email. Jim, and his wife, Sue, have been sailing the globe out of Friday Harbor in the San Juans for 11 years on the Heart of Gold. They are active sailors who use nonprofit radio e-mail networks to communicate with one another and those on shore.

HF radios have long been popular with wandering sailors. Digital protocols for sending text messages via HF radio date from World War II. It wasn't until the Internet revolution of the 1990's that text messaging via radio became practical for fulltime sailors.

Jim is a retired computer engineer, gave radio e-mail a big shot in the arm in 1997 when he published AirMail, an advanced e-mail terminal program he distributes free.

Now, the convenience of being able to send and receive e-mail from anywhere in the world — even the middle of an ocean — has become irresistible. Modems capable of sending data over radio connections and laptops loaded with AirMail are now considered essential equipment by many long-distance cruisers.

"Radio e-mail has freed us from worrying about the folks back home, and they about us," said Sue, KB6FRF, in an e-mail message sent from an anchorage in southeastern Alaska. "We no longer have to rush to find a phone when we make landfall to let everyone know we made it. It works well, too, for vital spare parts we need along the way. When our refrigerator compressor went out on us in Indonesia, we ordered a new one via e-mail from New Hampshire, and it was waiting for us when we reached Bali."

Several companies have tried to exploit this market for profit, but so far efforts to commercialize service for recreational mariners have been unsuccessful. One reason is that ham radio operators and cruising sailors belong to tightly knit communities and like to help one another. They share their technical knowledge freely and have no trouble creating and maintaining their own radio e-mail networks.

The largest such network, Winlink, offers service at no charge and consists of 31 volunteer ham mailbox stations scattered over the globe. According to Steve Waterman, who operates two stations from his home in Nashville and is also the Winlink network administrator, the system currently handles more than 80,000 messages a month and has 3,300 users, about 80 percent of whom are sailors. Of course amateur ham radio by law is strictly noncommercial. But sailors can also send HF radio e-mail through what are known as marine single-sideband (SSB) frequencies.

SSB radio can be operated for profit and can carry business-oriented traffic. Still, the most popular SSB e-mail network for recreational mariners is a nonprofit cooperative called SailMail. And the nonprofit organizations seem to be the best bet for operating the e-mail systems. "Cruising sailors are by nature a very cooperative group of people," Mr. Honey said. "It's perfectly appropriate for us to fill this need on a cooperative basis."

Satellite phone companies are another natural competitor for the radio e-mail networks. But they have failed thus far to fulfill their promise of affordable global wireless communications.

Washington County ARES ID Card Program, by Sharon, KD7CWP

Washington County Amateur Radio Emergency Services (ARES) exists for the purpose of providing backup emergency communications to served agencies. Those served agencies include Washington County, incorporated cities, special service districts (fire districts, utilities, schools, etc.), and hospitals. Other non-governmental agencies may also be served upon request, as allowed by available staffing and training.

Washington County ARES has been very busy over the last several years. We have increased our training opportunities, demonstrated the use of alternative modes and technologies to support our served agencies, and increased our emergency services participation. As a result, our served agencies have developed high expectations of our service. We have also developed high expectation of ourselves. This has also prompted us to formalize the requirements for our ID card program.

The Washington County ARES ID Card is provided to our members for the purpose of deployment to a served agency. The ID card provides the served agency with proof of ARES membership and of having passed a Washington County Sheriff's Office computerized background check within the last two years. The ID card is intended to facilitate, but does NOT guarantee, entrance into a served agency's facility or passage through a traffic control point. In most cases, a prior relationship with the served agency (personal recognition) is the best strategy for ensuring entry during an emergency.

The following standards are designed to build relationships among our ARES members, familiarize ARES members with our served agencies, and maintain proficiency with ARES response procedures. They support the concept that the best time to prepare for an emergency is before it happens.

Prior to receiving a Washington County ARES ID card, the applicant must:

- * Be a licensed amateur radio operator
- * Attend three Washington County ARES meetings
- * Check into the Washington County ARES net at least four times
- * Pass the Washington County Sheriff's Office computerized background check

To renew an existing Washington County ARES ID card, the applicant must, during the two-year term of their current card:

- * Maintain their amateur radio license
- * Attend at least two Washington County ARES meetings per year
- * Check into the Washington County ARES net at least four times per year
- * Participate in at least one Washington County ARES training, public service, or emergency service event
- * Pass the Washington County Sheriff's Office computerized background check

Any exceptions to these standards will be considered on an individual basis. In most cases, we will find a compromise that accommodates the applicant's situation yet still supports our ARES objectives.

Current ID cards that require renewal in 2002 will be renewed, but further renewals will be subject to the above standard. Current ID cards that require renewal in 2003 will require meeting the standard during the calendar year 2002. See ID CARDS, page 5

Club Contact Directory

OTVARC Executive Board

President	J.D. Fort	K7JDF	k7jdf@arri.net	503-259-0269
Vice President	Phil Teck	N7OY	philmay@hevanet.com	503-649-7533
Secretary	Everett Curry	W6ABM	w6abm@arri.net	503-681-2345
Treasurer	Linda Sutton	KC7YTD	kb7pvw@arri.net	503-246-8879
Trustee	Wes Allen	K7WWG	wesa@dnc.net	503-649-3295
Trustee	Janet Bell	WB7FJC	wb7fjc@arri.net	503-648-4147
Trustee	Jim Blanchard	W7HOW	w7how@arri.net	503-579-0248
Trustee	Alvin Carlson	KB7VHI	kb7vhi@arri.net	503-629-5728
Trustee	Julia Landers	KD7GQW	kd7gqw@aol.com	503-646-1546

Club Functions

ARRL Coordinator	Greg Milnes	W7OZ	w7oz@arri.net	503-648-6990
Club License Trustee	Hanford Van Ness	KE7BB	ke7bb@email.msn.com	503-246-7975
Community Service	Randy Stimson	KZ7T	kz7t@arri.net	503-641-3776
Contest: 5th Wednesday	Jim Schaeffer	KB7ADH	jim.schaeffer@sulzerpumps.com	503-245-2518
Email Notices	Everett Curry Jr.	W6ABM	w6abm@arri.net	503-681-2345
Emergency Services	Alvin Carlson	KB7VHI	kb7vhi@arri.net	503-629-5728
Equipment Loan	Dean Davis	KL7OR	deandavis@alpinsoft.com	503-598-9083
Field Day Coordinator	Dean Davis	KL7OR	deandavis@alpinsoft.com	503-598-9083
Health & Welfare	Linda Sutton	KC7YTD	kb7pvw@arri.net	503-246-8879
Historian	Al Berg	W7SIC	w7sic@pocketmail.com	503-816-7098
Internet Home Page	Betty Mickley	N7REX	n7rex@teleport.com	503-642-1284
	Marc Chamberlin	WA7PXW	marcc@easystreet.com	503-357-1869

Member Badges/Jackets	Carl Clawson	WS7L	ws7l@arri.net	503-629-5796
Mickley Scholarship	Janet Bell	WB7FJC	wb7fjc@arri.net	503-648-4147
Nominating Committee	John Anderson	KA7BRZ		503-452-2459
	Claire Johnson	N7CM	n7cm@arri.net	503-647-0860
Oscillator Editor	Everett Curry Jr.	W6ABM	w6abm@arri.net	503-681-2345
Repeater Coordinator	Wes Allen	K7WWG	wesa@dnc.net	503-649-3295
Sea-Pac	Al Berg	W7SIC	w7sic@pocketmail.com	503-816-7098
"	Jim Schaeffer	KB7ADH	jim.schaeffer@sulzerpumps.com	503-245-2518
"	Will Sheffield	N7THL	n7thl@arri.net	503-642-7314
"	Dean Davis	KL7OR	deandavis@alpinsoft.com	503-598-9083
Social	Harold Landers	WA0BRU	wa0bru@aol.com	503-646-1546
Technician Classes	Janet Bell	WB7FJC	wb7fjc@arri.net	503-648-4147
Trailer	Alvin Carlson	KB7VHI	kb7vhi@arri.net	503-629-5728
	Dee Lynch	K7JRB	deek7jrb@arri.net	541-745-1025
VE Coordinator	Carl Clawson	WS7L	ws7l@arri.net	503-629-5796

Interest Contacts

Project Night	Alan Chinnock	KB7POR	kb7por@aol.com	503-636-2237
QRP	Carl Blanchard	N7CVB	carlblanchard@earthlink.net	503-620-2581
RFI & TVI	Dale Mosby	K7FW	dale@sequent.com	503-640-0217
Satellites	Everett Curry Jr.	W6ABM	w6abm@arri.net	503-681-2345
Tower Ordinances	Greg Milnes	W7OZ	w7oz@arri.net	503-648-6990
Travelers	Betty Mickley	N7REX	n7rex@teleport.com	503-642-1284
VHF/UHF	Arnold Jensen	W7DSA	n7yag@columbia-center.org	503-543-3713

Birthdays for December:

Please join in wishing these folks a "Happy Birthday" in December:

2nd: Bert, W7JWG; **3rd:** Joan, N7LMK; **6th:** Phil, K2ASP; **9th:** Roland, K7MCK; **13th:** Richard, W7AND; **16th:** Bob, K6RH; **17th:** Peter, N7DUC; **18th:** Ken, W7EZE; **19th:** Pete, WA7JBG; **23rd:** Robert, WA7WJA; **27th:** Floyd, N7ONQ; **31st:** Bill, N7RYQ.

Hamfests And Conventions

16 February 2002

Salem Hamfair
Salem Repeater Association
Larry Quiring, KC7NOS
503-585-8897
KC7NOS@juno.com

9 March 2002

Puyallup Washington
Mike and Key ARC
Michael Dinkelman, N7WA
22222 148th Avenue SE
Kent, WA 98042
425-867-4797 (dy)/253-631-3756(eves)
mwdink@eskimo.com
www.mikeandkey.com

11 May 2002

Stanwood-Camano ARC
Stanwood Washington
John McCann, N7MZ
PO Box 941
Stanwood WA 98292
360-629-2921
huppert@whidbey.net

1-2 June 2002

**Northwestern Division
Convention - SeaPac**



Oregon Tualatin Valley ARC
Jim Schaeffer KB7ADH
503-245-2518
jimschaeffer@sulzerpumps.com

**Have you returned your
ballot?**

All ballots must be received
by 6:00 pm on December
12th. Send yours to
OTVARC, PO Box 5132,
Aloha, OR 97006-0132

Newsletter: The Oscillator is the club newsletter. It is published monthly and mailed on the first of the month. Opinions, views, and recommendations of its contributors are not necessarily those of the club, its officers, advertisers or the editorial staff. Editor's E-mail: wabm@arrl.net. The January 2002 OSCILLATOR deadline is Friday, December 21st.

- Our intent is to promote the advancement of Amateur Radio service through these five objectives:
1. Education & Training of new and licensed Amateurs.
 2. Public Service during community events & activities.
 3. Emergency communications in emergencies & disasters.
 4. Hobby enhancement through meetings, nets & contests.
 5. Social contact with amateurs & other interested persons.

Purpose: The Oregon Tualatin Valley Amateur Radio Club, a not-for-profit corporation, wants to be instrumental in helping the prospective and established Amateur to become a proficient communicator in the Amateur Radio Service.

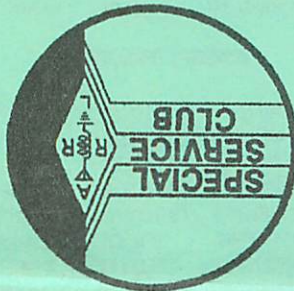
Club Information

How to join: Mail a Membership application and/or renewal form with your dues to the Club address.

Membership: OTVARC is open to anyone who is interested in amateur radio. You do not need to be a licensed radio amateur to join. Dues are: Full member, \$10/yr; Associate member (non-licensed), \$10/yr; Family members of full member, \$5/yr. Life memberships available - see the Treasurer. Only full members and life members may vote on club business and serve as club officers. All memberships expire on the last day of the calendar year. If you would like to join during the year, see the club treasurer for a prorated dues schedule.

Meetings: We have two meetings per month. The General meeting is on the second Wednesday of each month at the Beaverton Elks Lodge, 3500 SW 104th Ave. (1 block north of Canyon Road). Meetings start at 7 PM. If you would like to come early, you can get a nice meal from the Elks for less than \$7.00. The Board meeting is on the fourth Wednesday of each month at Fire Station 67, Beaverton, 7:00 pm. Club business is conducted at this meeting. All members are welcome to attend.

Correspondence: All correspondence may be sent to OTVARC, PO Box 5132, Aloha, OR 97006-0132.



OTVARC

**Oregon Tualatin Valley
Amateur Radio Club**

Post Office Box 5132
Aloha OR 97006-0132

**Remember
Club Dinner: Dec. 12th**

Web: WWW.OTVARC.ORG
Repeater: 146.96MHz
Repeater: 440.350 (127.3)
Simplex: 147.54 MHz
email: w7otv@yahoo.com

~~Mary and Al Berg~~

~~9500 SE 2nd~~

~~Portland, OR 97206~~

